

CLAIMS

1. A deadlocking assembly for use in locks, said assembly comprising:

5 a lock bolt operatively coupled to a rack;

a drive means adapted to be rotatably driven and adapted to engage said rack to cause it to move in one axis;

10 said drive means including a deadlocking arrangement whereby when said bolt is in an extended position, external movement of the bolt towards the retracted position causes said rack to abut said deadlocking arrangement without engaging said drive means.

2. The deadlocking assembly as in claim 1, wherein said drive means is a pinion gear including a plurality of gear teeth adapted to engage teeth on said rack.

3. The deadlocking assembly as in claim 1, wherein said rack includes a cavity so located to allow for a first arm extending from said pinion gear to pass therethrough upon rotation of said pinion gear, said first arm effecting said deadlocking arrangement by abutting against a wall in said rack cavity when said rack is moved independently of said pinion gear and where said pinion gear teeth are disengaged from said rack teeth.

4. The deadlocking assembly as in claim 3, wherein said pinion gear includes a second arm adapted to abut against a shoulder in said rack when said rack has been fully retracted.

5. The deadlocking assembly as in claim 4, wherein said second arm is parallel to and extends in the opposite direction to said first arm.

6. A deadlocking assembly for use in locks, said assembly comprising:

a rack having a plurality of teeth and supporting at one end a locking bolt;

a pinion gear having a plurality of teeth adapted to engage said rack teeth to cause said bolt to move in a longitudinal direction between an extended and a retracted position, said pinion gear further having two outwardly opposing arms, wherein in the extended position the first of said arms abuts a cut out in the rack, and in the retracted position the second of said arms is located adjacent a surface, wherein forcing of said bolt to the retracted position abuts said surface with said second of said arms, thereby deadlocking said bolt.